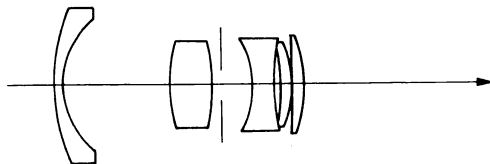


## MINOLTA AF 28mm F2.8 (2557-100)

## MINOLTA MAXXUM AF 28mm F2.8 (2557-600)

### LENS



Construction : 5 elements in 5 groups  
Type : Retrofocus  
Coating : Minolta Achromatic  
Angle of view : 75°  
Lens mount : Minolta A mount  
Lens signal contact : 5 contacts  
Diaphragm : Automatic preset diaphragm  
f No. : Maximum...2.8  
Minimum...22  
Full-stop setting...6 stops  
Diaphragm blade : 7 blades

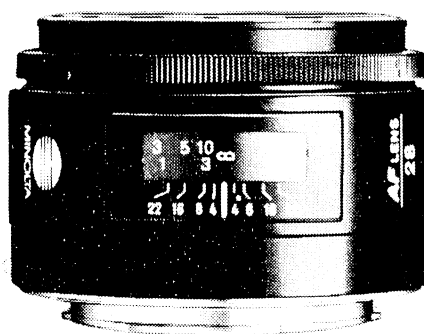
### FOCUSING

Focusing : AF, FA, M  
Type : Double helicoid system  
Minimum focusing distance : 0.3m

Distance scale :  $\frac{1}{0.3} \frac{1.25}{0.35} \frac{1.5}{0.4} \frac{2}{0.5} \frac{3}{0.7} \frac{5}{1} \frac{10}{3} \frac{\infty}{\infty}$  (ft)  
(m)

Infrared correction index : Yes

Depth-of-field scale : 4 8 16 22



### DIMENSIONS & WEIGHT

Dimensions :  $\phi 65.5$  (max. diameter)  $\times$   
42.5 mm (max. length)  
Weight : 200 g  
Filter-thread diameter :  $\phi 49$  mm (P=0.75)  
Lens hood : Built-in

### ACCESSORIES

Lens case (LH-1011)

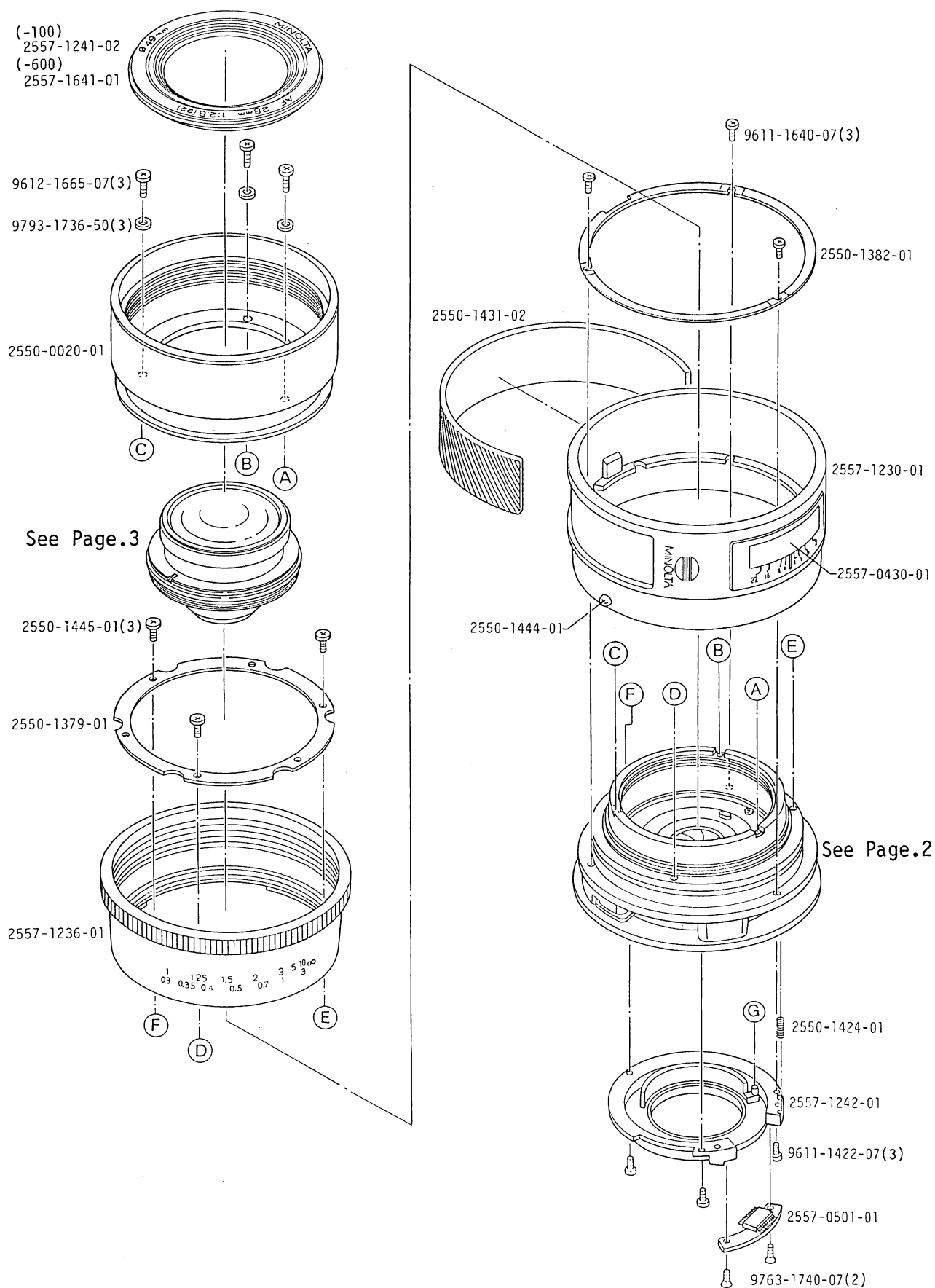
I N D E X

Part No.	Page	Part No.	Page	Part No.	Page
2550-0020-----1		2550-1382-----1			
2557-0031-----3				0590-9803-----3	
2557-0113-----2		2550-1402-----2			
2557-0232-----2		2557-1420-----2		Screw	
2562-0240-----2		2550-1424-----1		9611-1422-07-----1	
2557-0371-----2		2550-1431-----1		9611-1625-07-----2	
2557-0430-----1		2550-1444-----1		9611-1635-07-----2	
2557-0501-----1		2550-1445-----1		9611-1640-07-----1	
		2550-1446-----2		9611-2040-04-----2	
2557-1112-----2		2513-1449-----2			
2557-1115-----2				9612-1665-07-----1	
		2557-1641-----1			
2557-1230-----1				9763-1740-07-----1	
2557-1236-----1		2557-1801-----3			
2557-1241-----1		2557-1804-----3		Washer	
2557-1242-----1		2557-1805-----3		9793-1736-50-----1	
2557-1372-----2		0590-9102-----3			
2550-1374-----2		0590-9103-----3			
2550-1375-----2		0590-9104-----3			
2550-1379-----1		0590-9105-----3			
2550-1381-----2		0590-9106-----3			

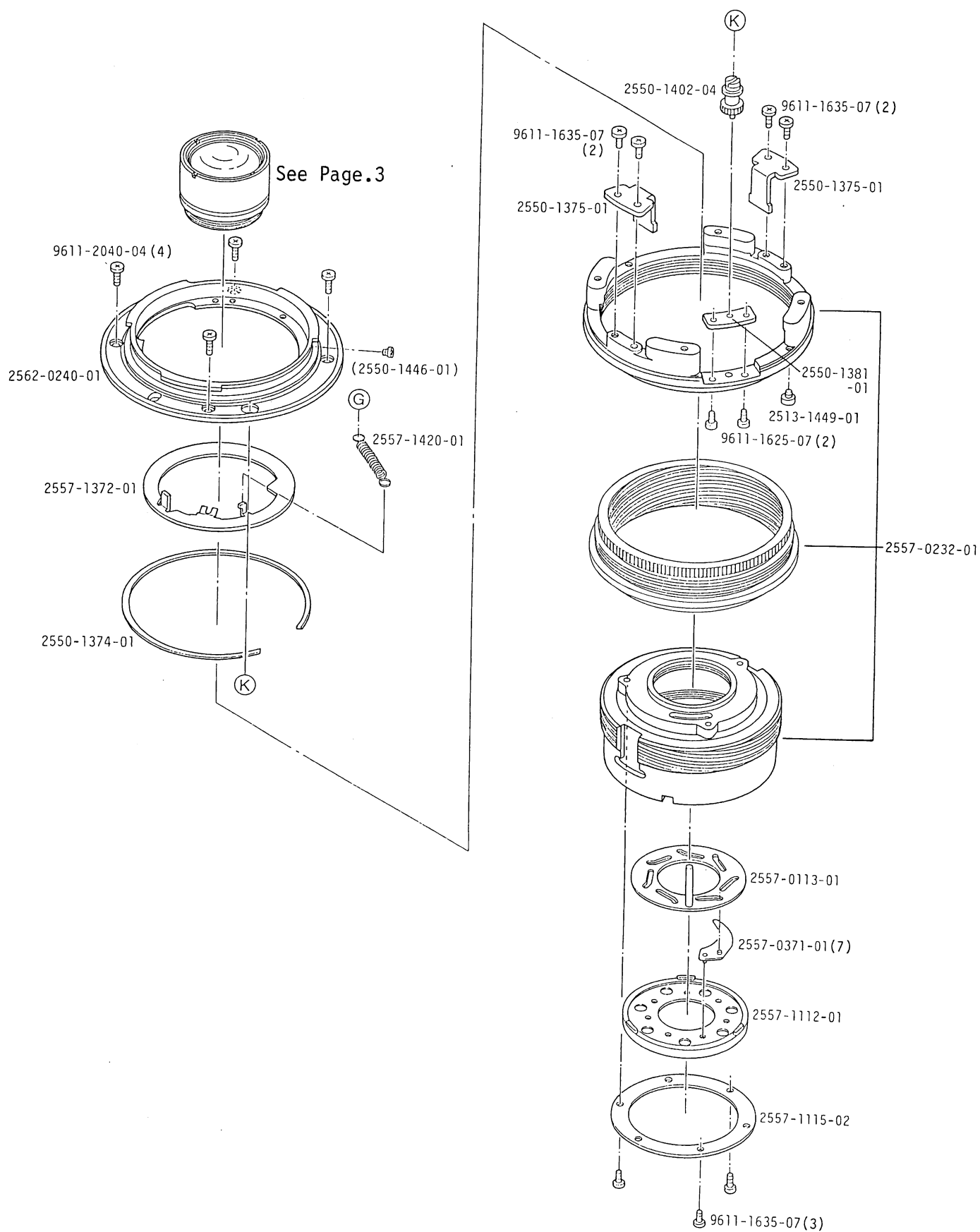
AF 28mm F2.8(22)

Code No.2557-100

MAXXUM AF 28mm F2.8(22) Code No.2557-600



Part No.	Part Name		Qty.
2550-0020-01	Hood set	フードセット	1
2557-0430-01	Distance scale window set	距離表示窓セット	1
2557-0501-01	Lens contact board set	信号基板セット	1
2557-1230-01	Outer ring	固定保持環	1
2557-1236-01	Focusing ring	距離リング	1
2557-1241-02	Name plate (-100)	飾り環	1
2557-1242-01	Light shield ring	遮光筒	1
2550-1379-01	Focusing ring set plate	距離リング締付板	1
2550-1382-01	Outer ring set plate	固定保持環締付板	1
2550-1424-01	Spring	アーススプリング	1
2550-1431-02	Leather	貼皮	1
2550-1444-01	Bayonet point	バヨネット標点	1
2550-1445-01	Screw	止めねじ	3
2557-1641-01	Name plate (-600)	飾り環	1
9611-1422-07	Phillips type screw	十字穴付なべ頭小ねじ	3
9611-1640-07	Phillips type screw	十字穴付なべ頭小ねじ	3
9612-1665-07	Phillips type screw	十字穴付なべ頭小ねじ	3
9763-1740-07	Tap tite screw	十字穴付半丸頭タップタイトねじ	2
9793-1736-50	Washer	薄ワッシャー	3



Part No.	Part Name		Qty.
2557-0113-01	Diaphragm operation plate set	絞り操作板セット	1
2557-0232-01	Helicoid set	ヘリコイドセット	1
2562-0240-01	Bayonet mount set	バヨネットマウントセット	1
(2550-1446-01)	Screw	ストッパービス	1
2557-0371-01	Diaphragm blade set	絞り羽根セット	7
2557-1112-01	Diaphragm pressure ring	絞り押え環	1
2557-1115-02	Diaphragm pressure plate	絞り押え環固定ワッシャー	1
2557-1372-01	Preset ring	プリセットリング	1
2550-1374-01	Preset ring pressure	プリセットリング押え	1
2550-1375-01	Helicoid key	直進キー	2
2550-1381-01	Axis receiver - B	軸受B	1
2550-1402-04	Coupler	カプラー	1
2557-1420-01	Main spring	メインスプリング	1
2513-1449-01	Screw	止めねじ	1
9611-1625-07	Phillips type screw	十字穴付なべ頭小ねじ	2
9611-1635-07	Phillips type screw	十字穴付なべ頭小ねじ	7
9611-2040-04	Phillips type screw	十字穴付なべ頭小ねじ	4

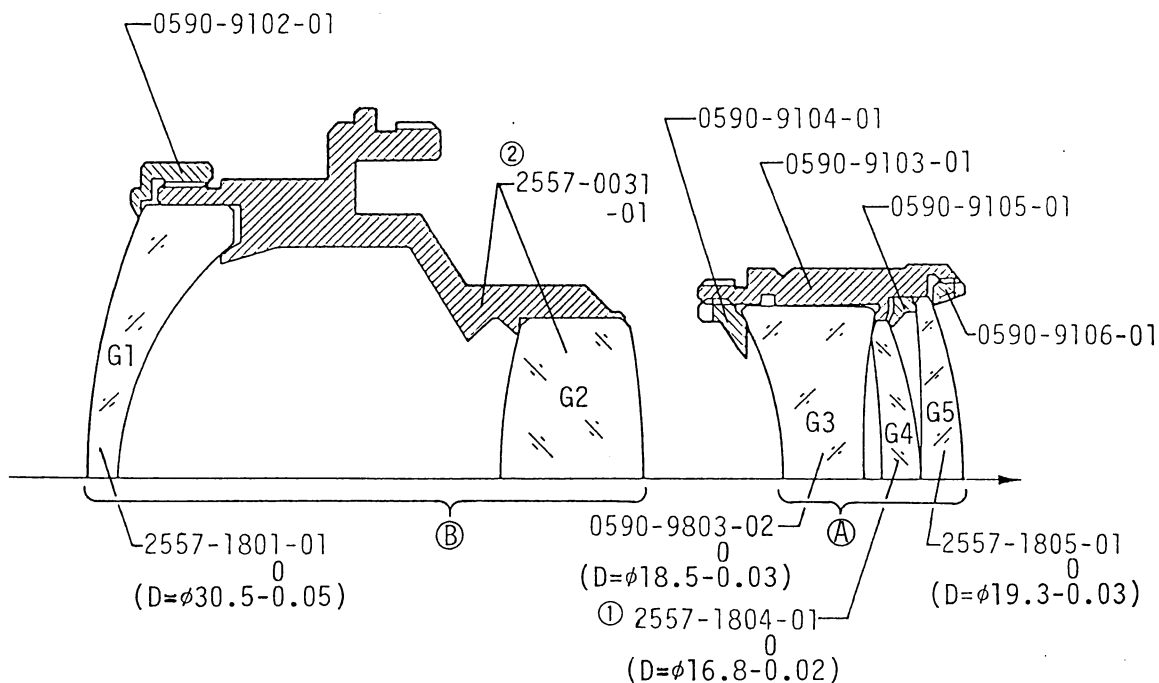
AF 28mm F2.8(22) Code No.2557-100  
 MAXXUM AF 28mm F2.8(22) Code No.2557-600

■ When repairing following parts, must be checked resolving power by projection.

■ 下記部品を修理した場合は、必ず投影解像力を確認して下さい。

①: The influential lens element in the lens performance. (Number shows in order.)

①: レンズ性能によく影響するレンズ。(数字は順位を示す)



Part No.	Part Name		Qty.
2557-0031-01	Front lens barrel set	前玉枠セット	1
2557-1801-01	Lens - G1	レンズG1	1
2557-1804-01	Lens - G4	レンズG4	1
2557-1805-01	Lens - G5	レンズG5	1
0590-9102-01	G1 pressure ring	G1押え	1
0590-9103-01	Rear lens barrel	後玉枠	1
0590-9104-01	G3 pressure ring	G3押え	1
0590-9105-01	G4,G5 spacer	G4,G5間隔ワッシャー	1
0590-9106-01	G5 pressure ring	G5押え	1
0590-9803-02	Lens - G3	レンズG3	1

# REPAIR GUIDE

■ The contents of this manual are in accordance with the assembling procedure. Therefore, follow the reverse procedure when disassembling.

## — Description of marks used —

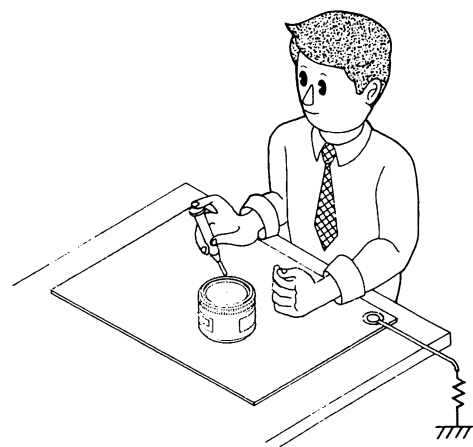
- B : Adhesive
- S : Solvent
- A : Anti-diffusion compound
- G : Lubricant
- T : Tool
- : Point of assembling and general caution

## ■ Assembling and adjusting procedure

	Page
① Outer helicoid, Middle helicoid, Inner helicoid assembling .....	1
■ Helicoid position, level adjusting .....	1
② Diaphragm blade, Coupler, Bayonet mount, Rear lens group assembling .....	2
③ Outer ring, Focusing ring, Light shield ring, Lens contact board set assembling .....	3
■ Aperture diameter adjusting (including pre-check) .....	3
④ Front lens group, Hood set, Name ring assembling .....	4
■ Flange back adjusting .....	4
■ Projection resolving power checking .....	4
■ Aperture diameter checking .....	4
■ General function checking .....	4
■ Description of focusing .....	5
■ Wiring schematic diagram and Printed wiring diagram .....	5

## ■ Precautions

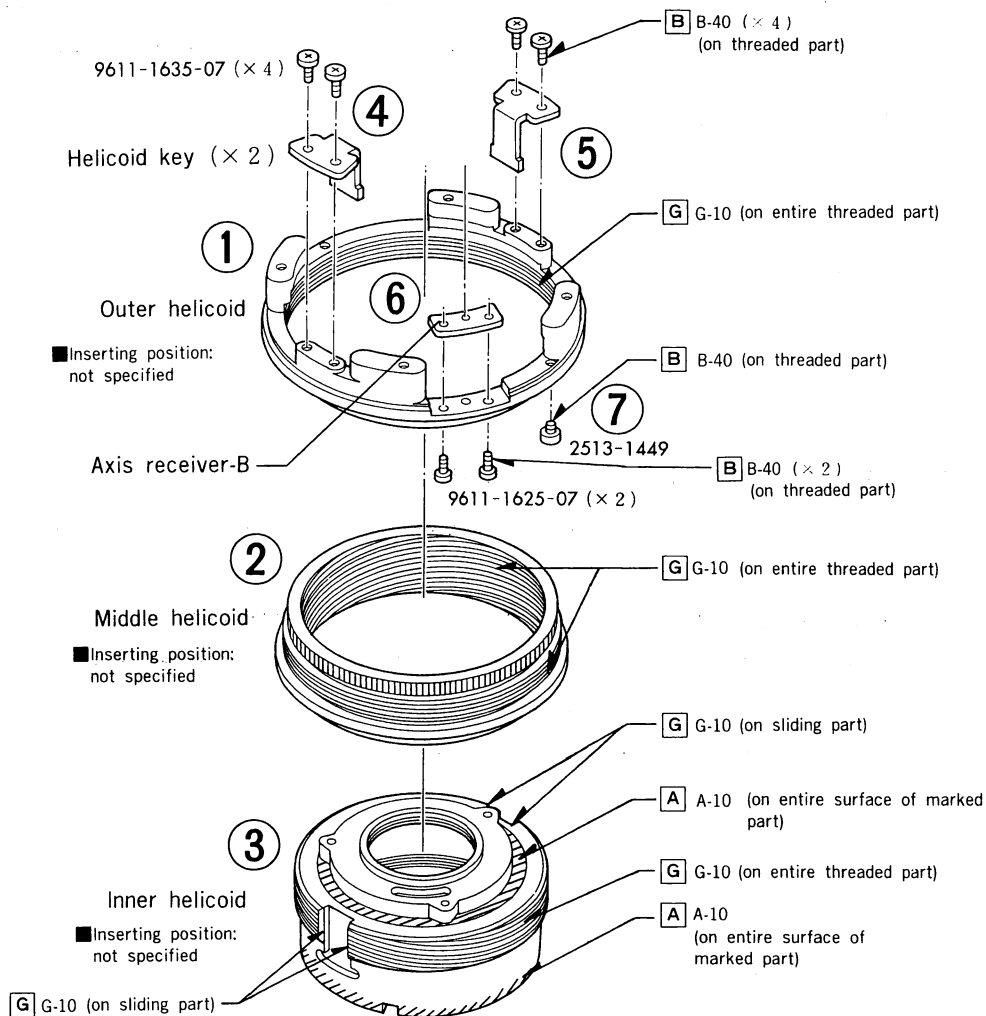
- Since this lens uses many resin parts, keep the following in mind when assembling and adjusting.
  - Use Flonsolve or alcohol when cleaning. Never use the thinner, ketone or ether.
- Since MOS-IC is used in this lens, it is necessary to take special precautions about static electricity. When performing repairs, use the conductive mat without fail, as shown.





# 1 Outer helicoid, Middle helicoid, Inner helicoid

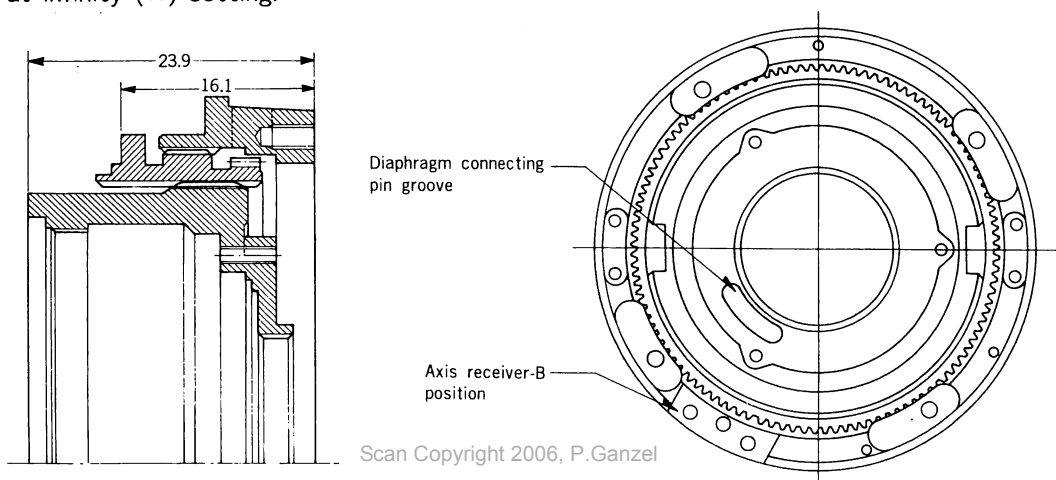
- Assemble the parts in the order of ①→⑦. After assembling, wipe off overflowed grease.
- While assembling parts ①→④, perform the adjustments of helicoid position and level. (See Fig. 1)



- After assembling, check the helicoid functioning. (stiffness, smoothness, catching).

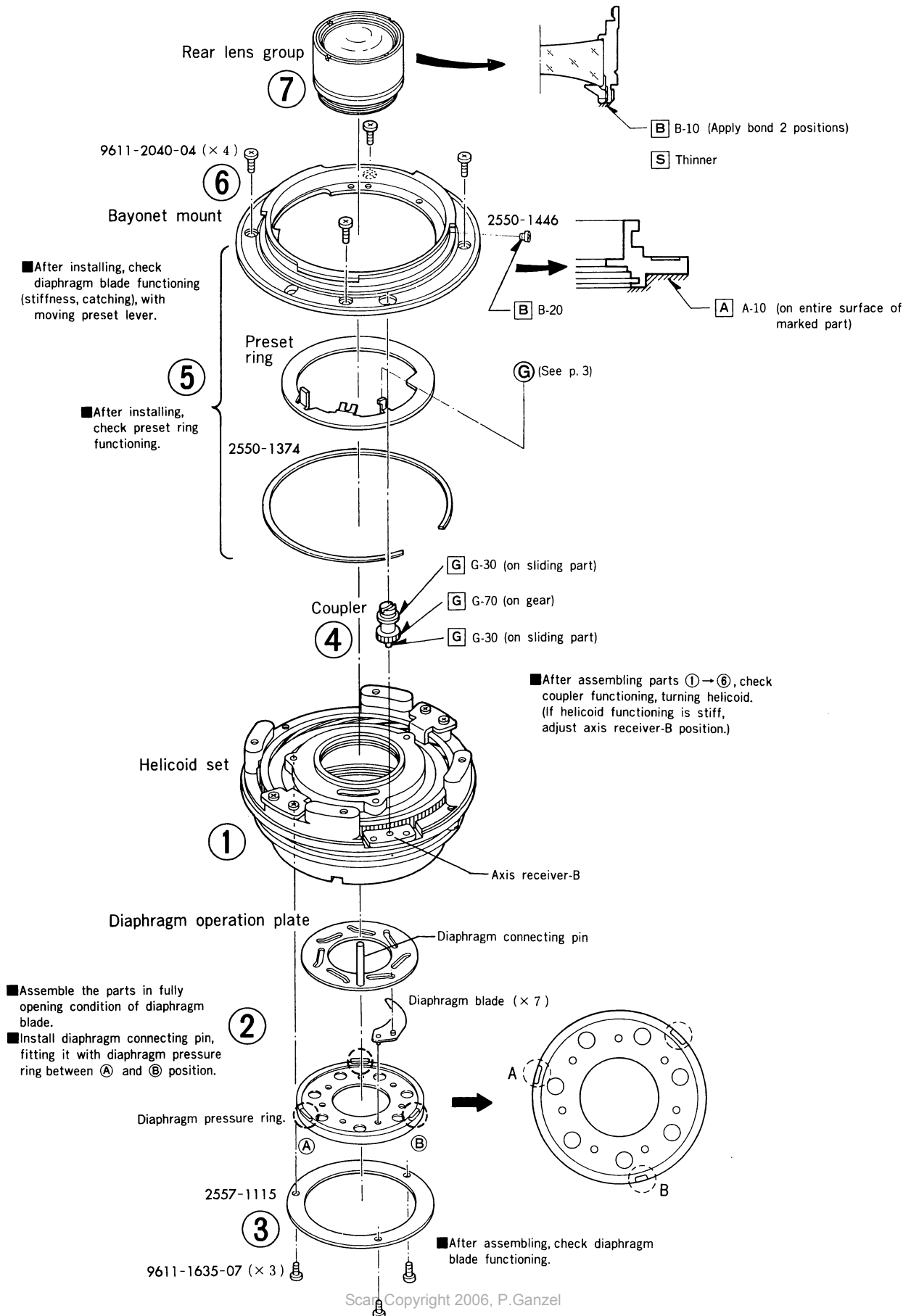
■ Fig. 1 Helicoid position, level adjusting  
Set the helicoid level as shown,  
at infinity ( $\infty$ ) setting.

Axis receiver-B position and diaphragm connecting pin groove should be in position as shown when installing helicoid key.



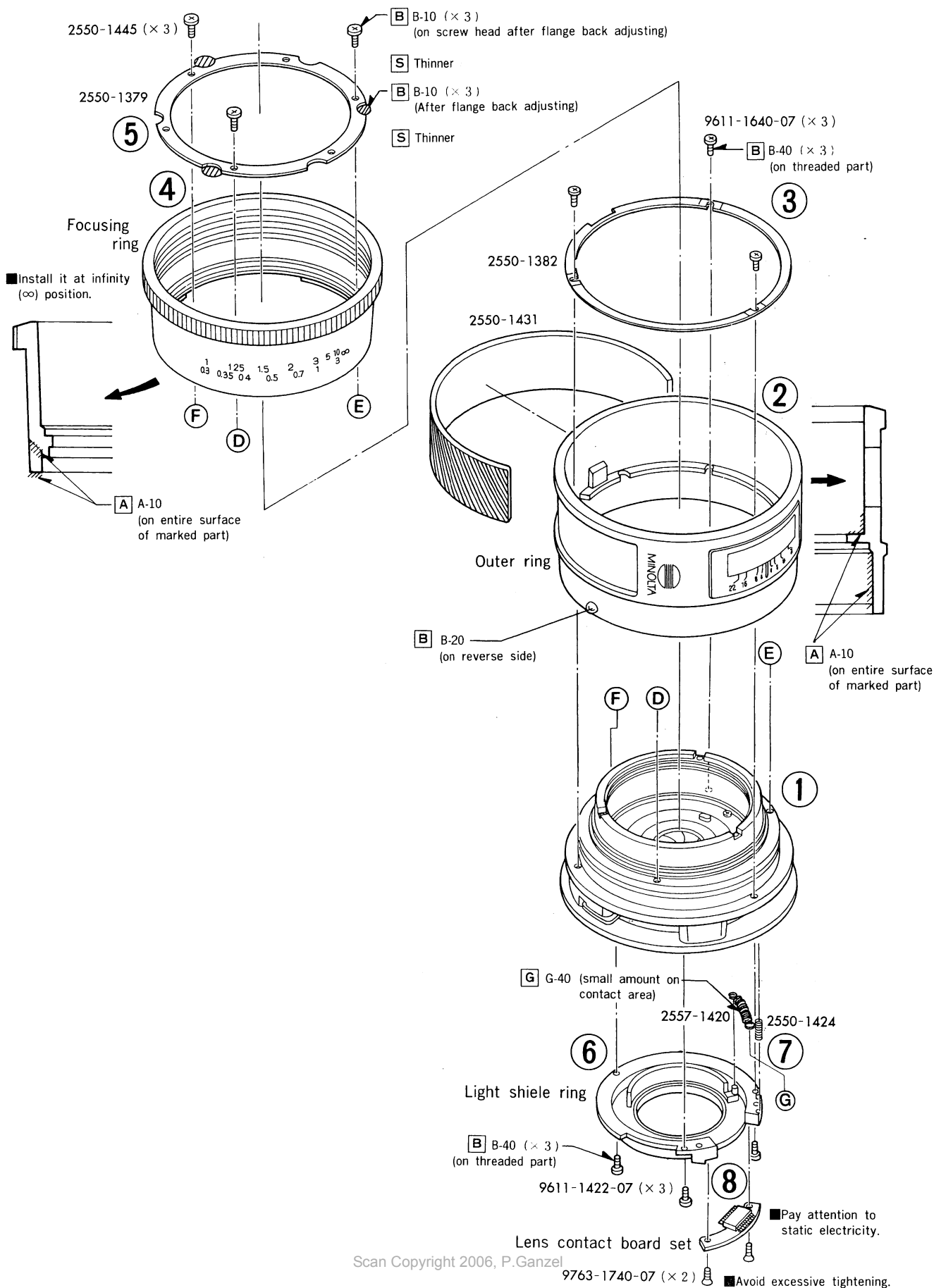
## 2 Diaphragm blade, Coupler, Bayonet mount, Rear lens group

■ Assemble the parts in the order of ①→⑦.



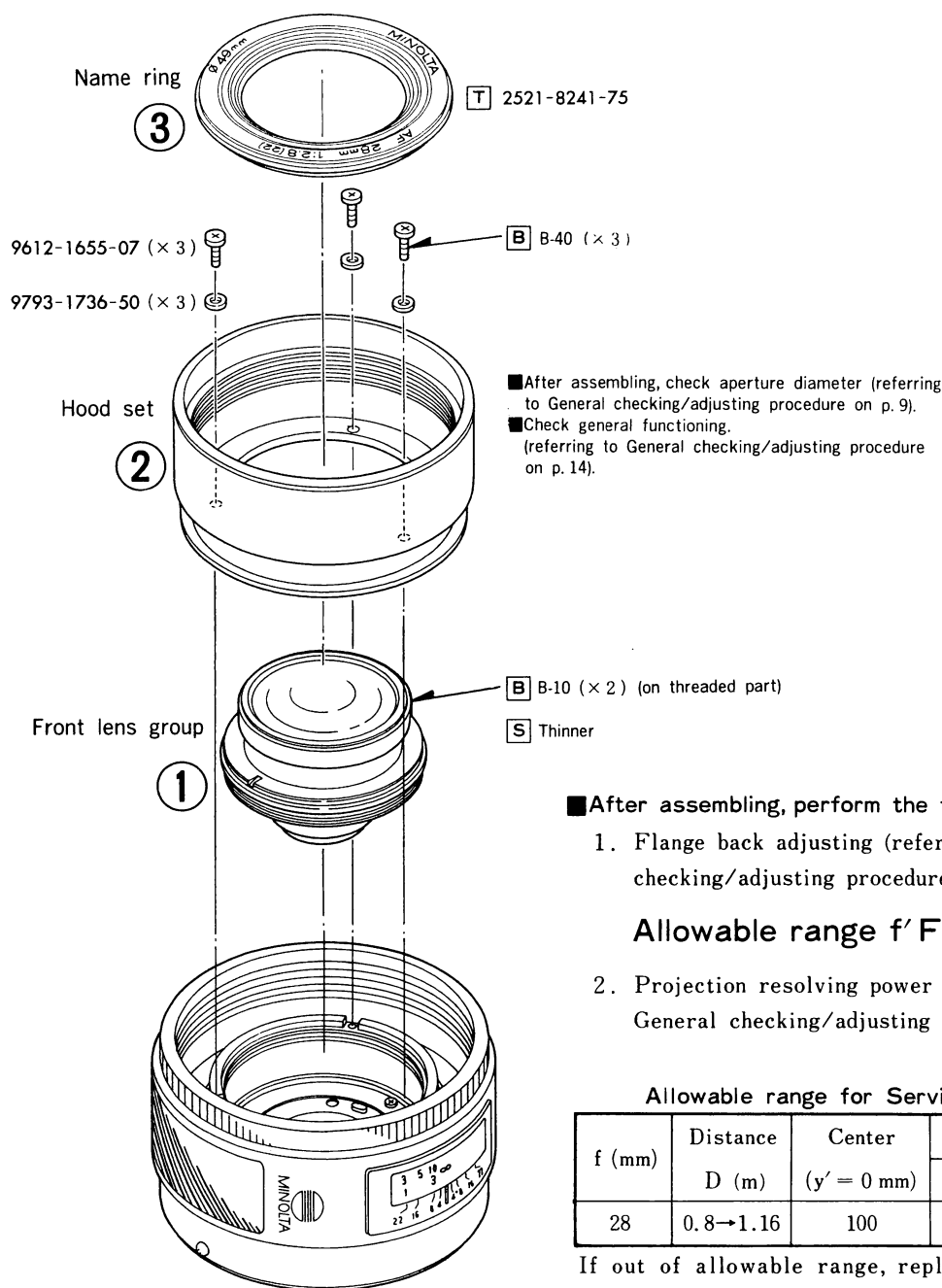
### 3 Outer ring, Focusing ring, Light shield ring, Lens contact board set

■ Assemble the parts in the order of ①→⑧. After assembling, perform aperture diameter adjusting (including pre-check, referring to General checking/adjusting procedure on P. 8, 9).

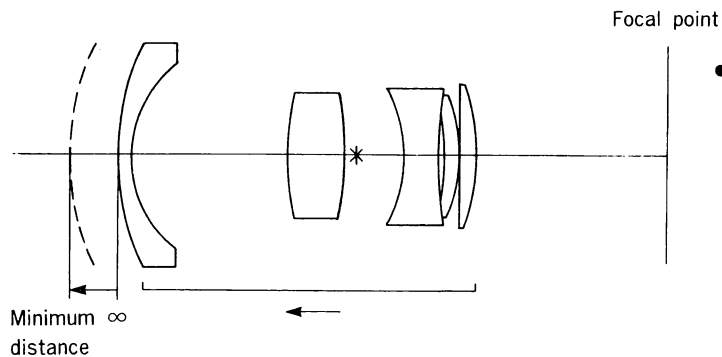


# 4 Front lens group, Hood set, Name ring

■ Assemble the parts in the order of ①→③.



## Description of focusing



### ● Double helicoid system.

By rotating AF coupler or focusing ring, all optical lenses move in the same way.

## Wiring schematic diagram, printed wiring diagram

Lens contact board set 2557-0501

